



USMC Capstone Warfighting Concept 4 January 1996



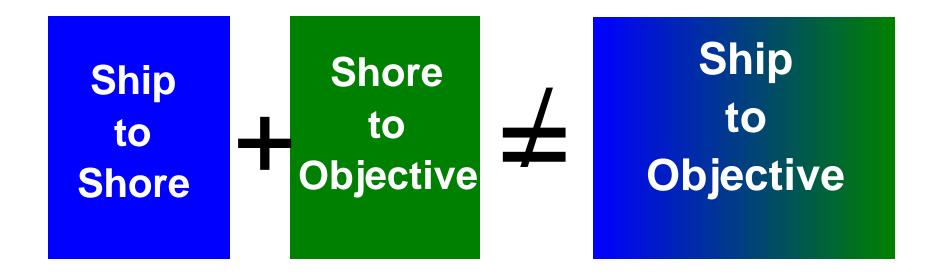
Concept Based
Requirements Process
(CBRP)

OPERATIONAL
MANEUVER
FROM THE SEA
(OMFTS)

Ship to Objective Maneuver (STOM) Sustained Operations Ashore (SOA) Other Expeditionary Operations (OEO)

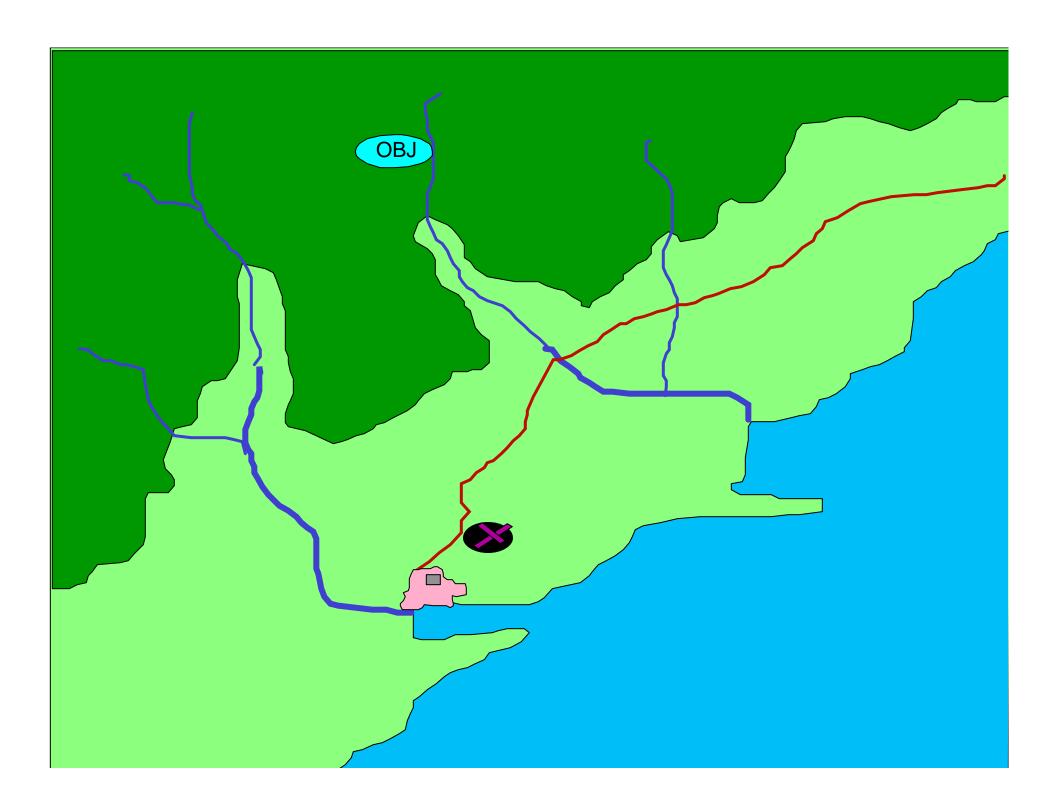


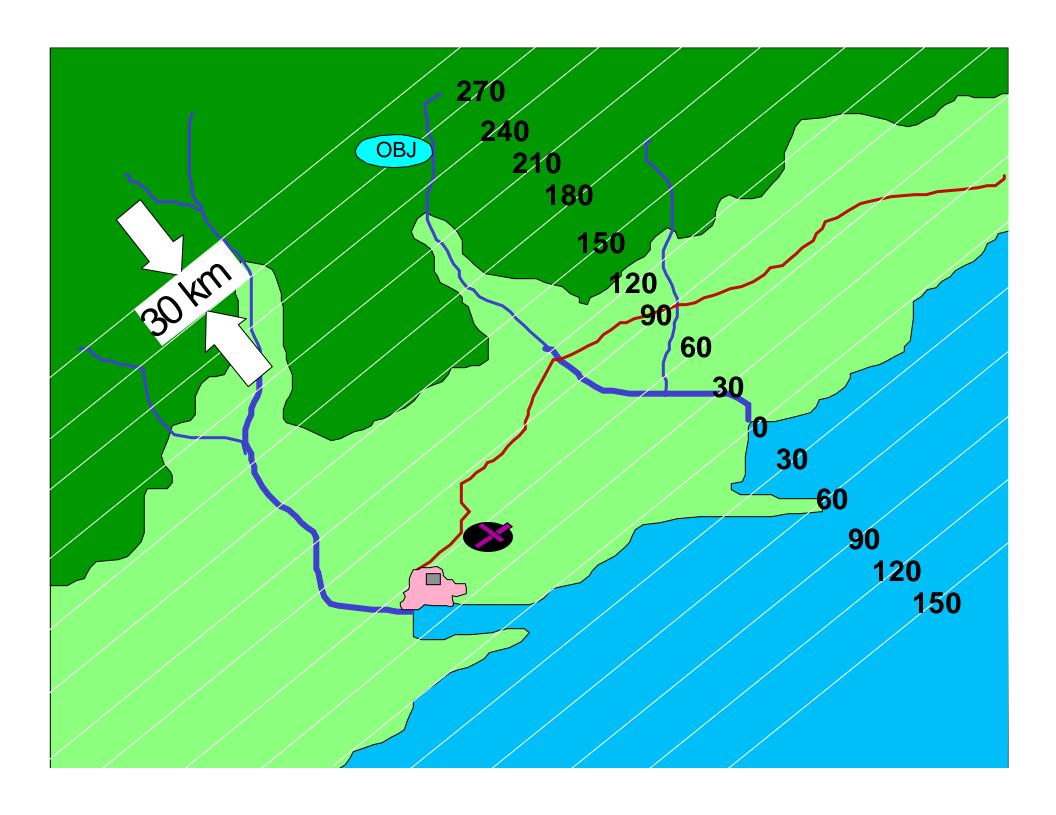
New Math for OMFTS

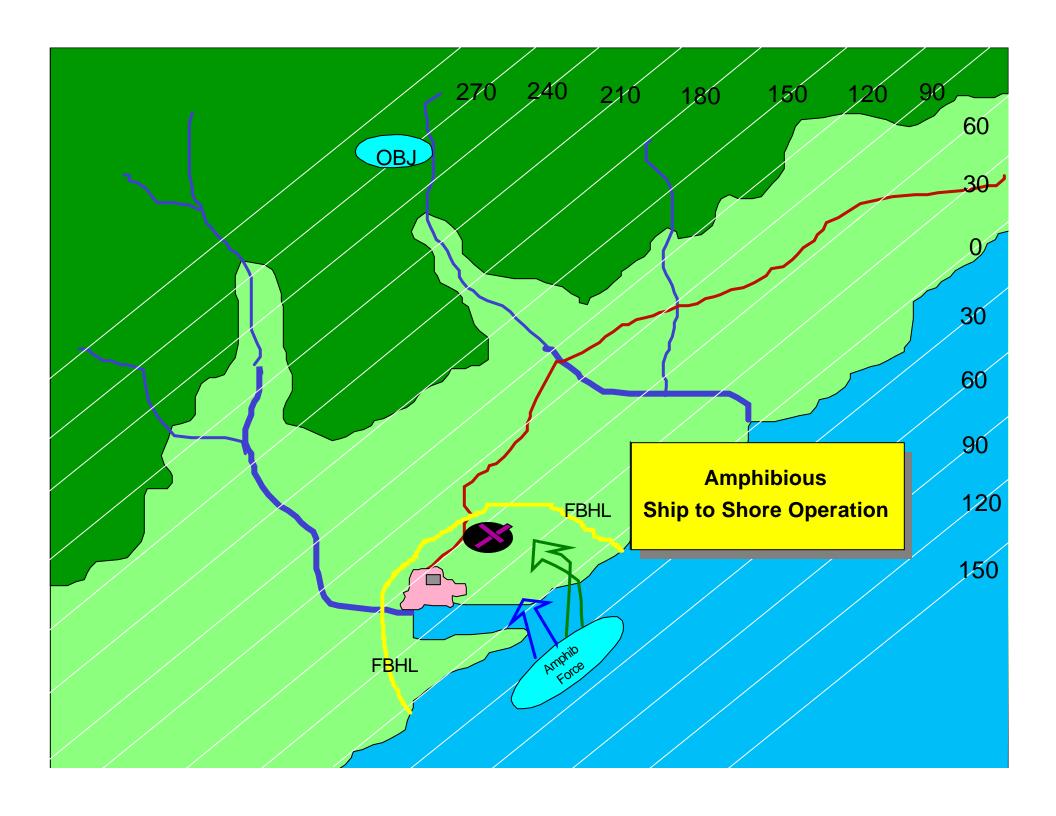


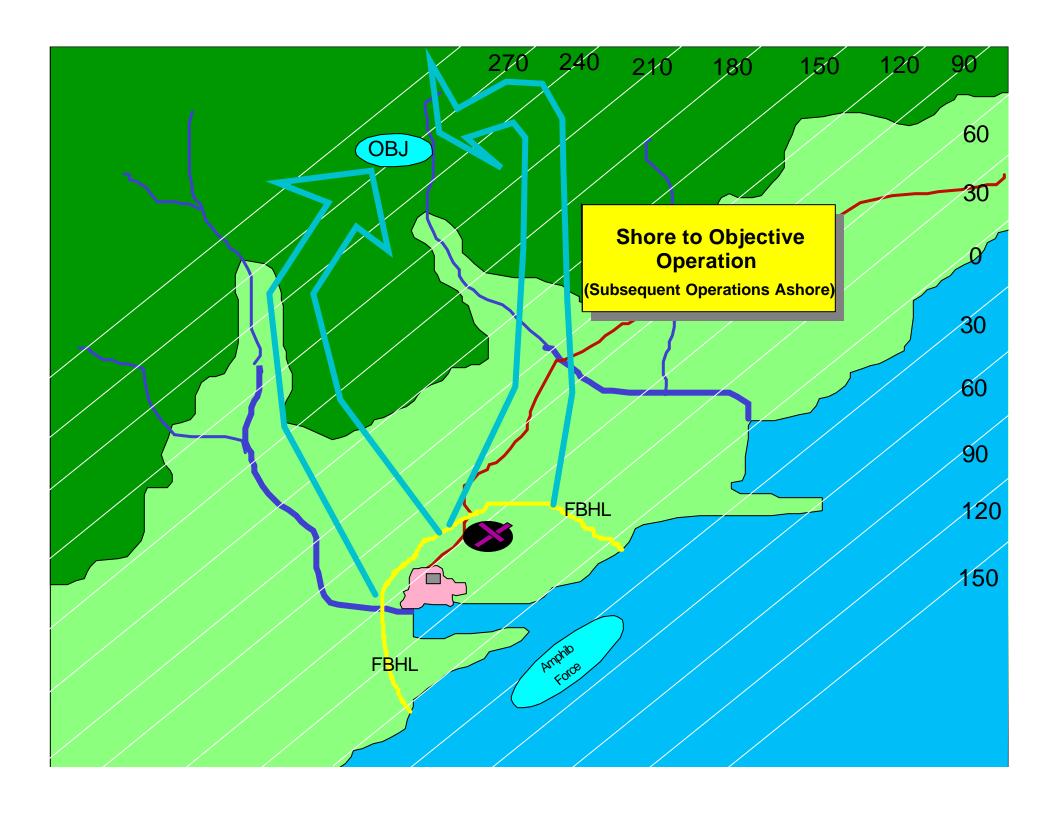
"The command and control system best suited to OMFTS will be very different from those developed to deal with previous approaches to amphibious warfare."

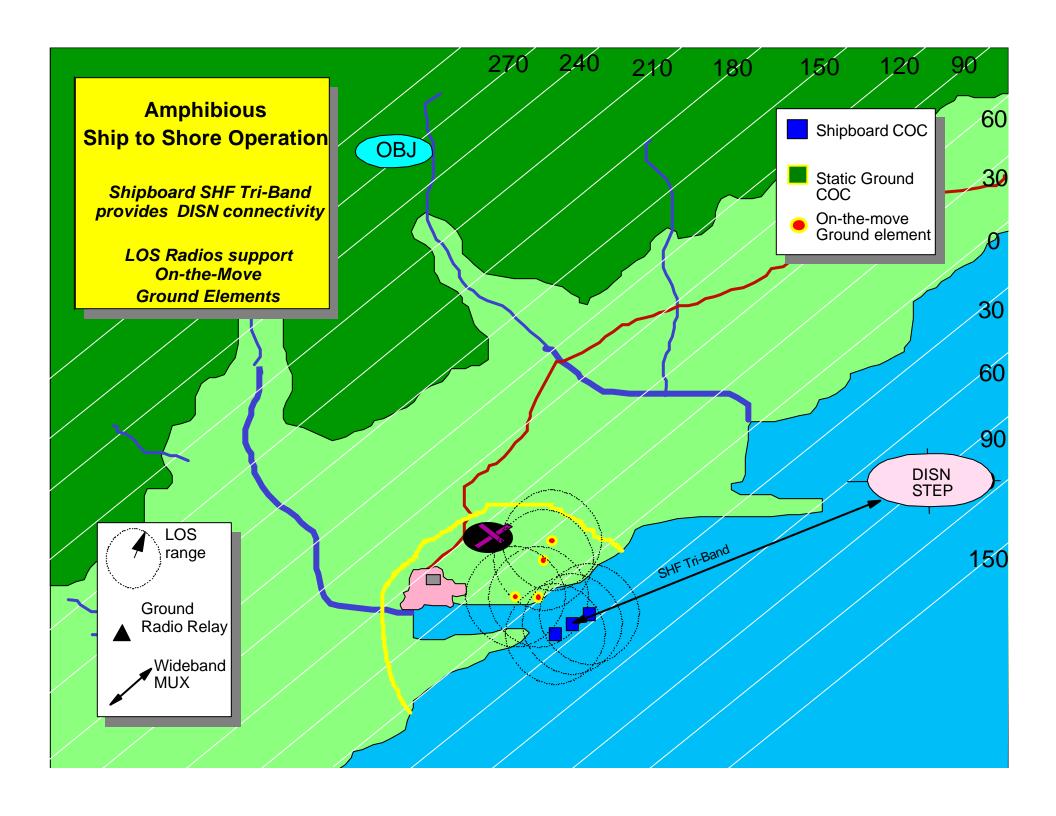
OMFTS Concept, 4 Jan 1996













On-the-Move LOS Radios

VHF Radio

SINCGARS

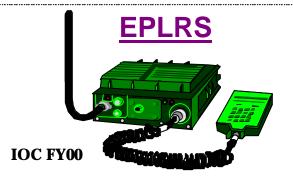


1,500 bps

Being Fielded

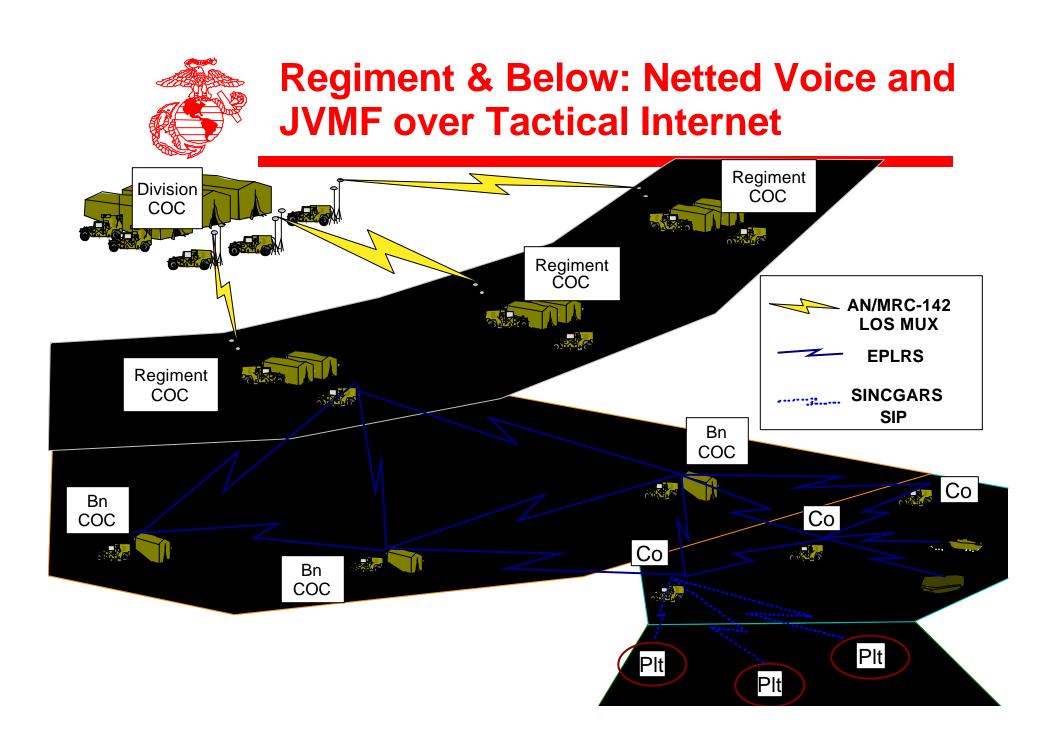
Netted Voice & Joint Variable Message Format (JVMF) C2 & SA msg exchange via MIL-STD-188-220 (IP over CNR)

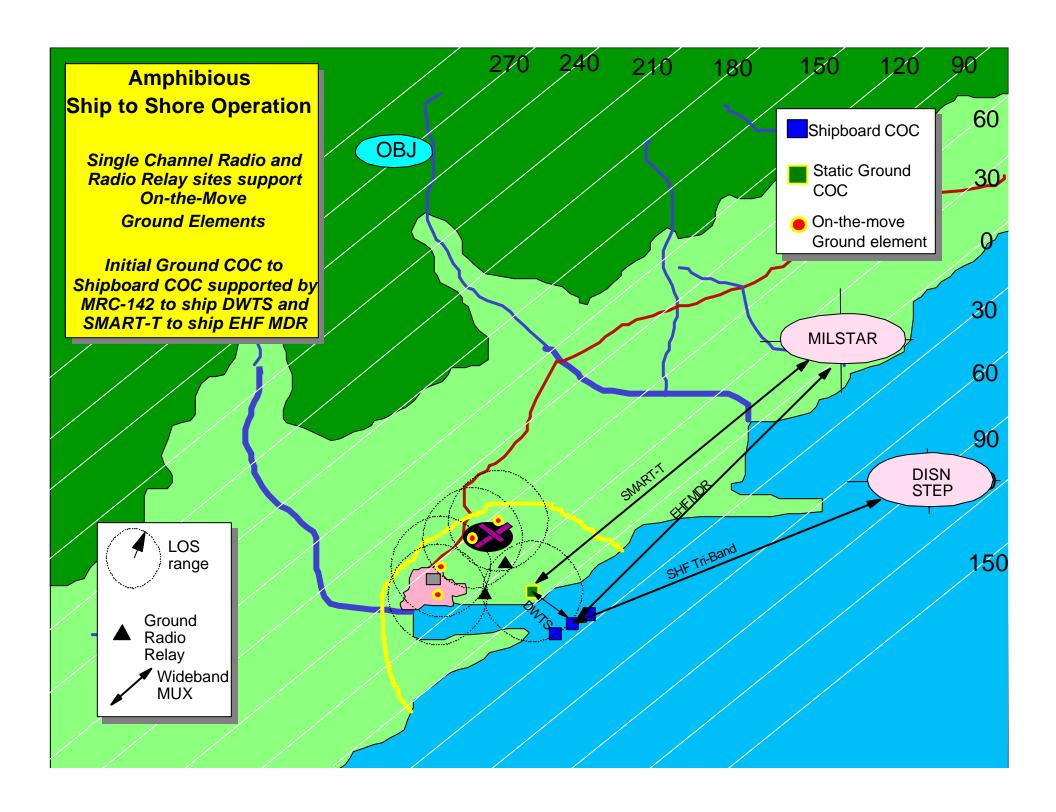
UHF Data Radio



480 bps to 115,000 bps

Joint Variable Message Format (JVMF) C2 and SA msg via pt-to-pt and broadcast needlines

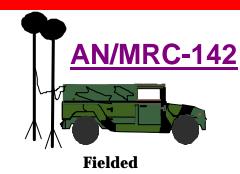






Initial Wideband Ship-to-Shore

UHF LOS MUX

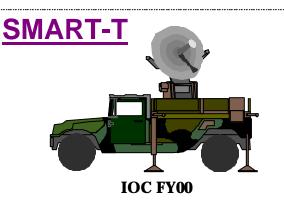


576,000 bps

(at Div Comm Co)

Compatible with Shipboard Digital Wideband Transmission System (DWTS)

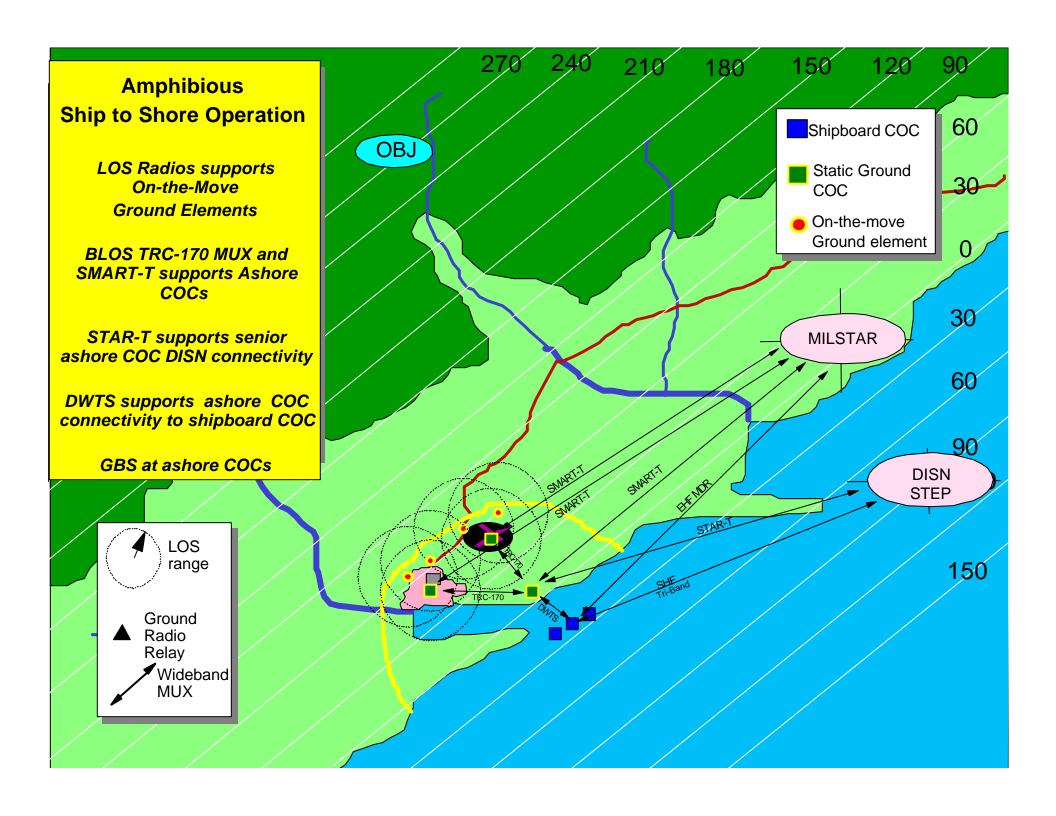
EHF SATCOM (MILSTAR)



1,544,000 bps

(at Div & Inf Reg)

Compatible with Shipboard EHF MDR





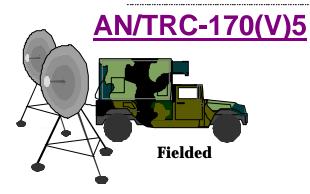
Wideband for Major Ashore COCs

SHF SATCOM (Comm & Mil Bands)



8,192,000 bps (at Comm Bn)

SHF BLOS MUX



4,608,000 bps

(at Comm Bn)

Ku Band SatCom



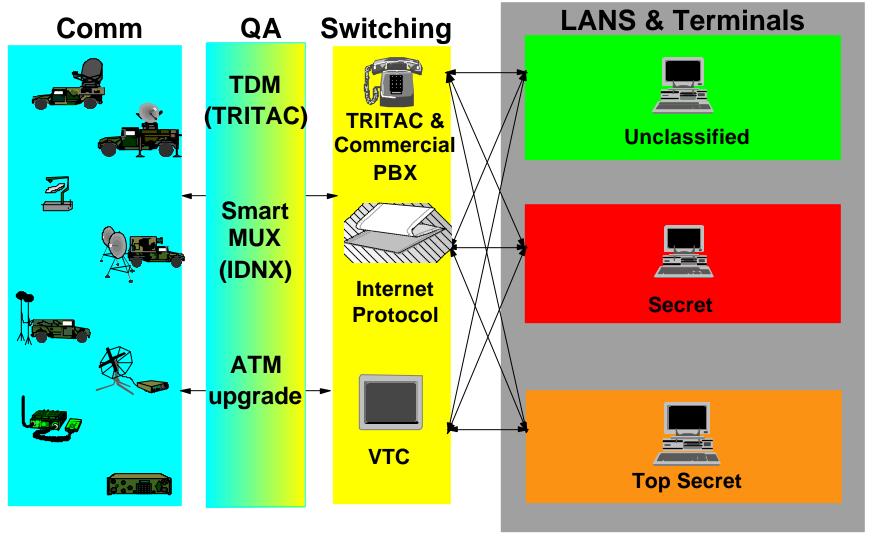
GBS

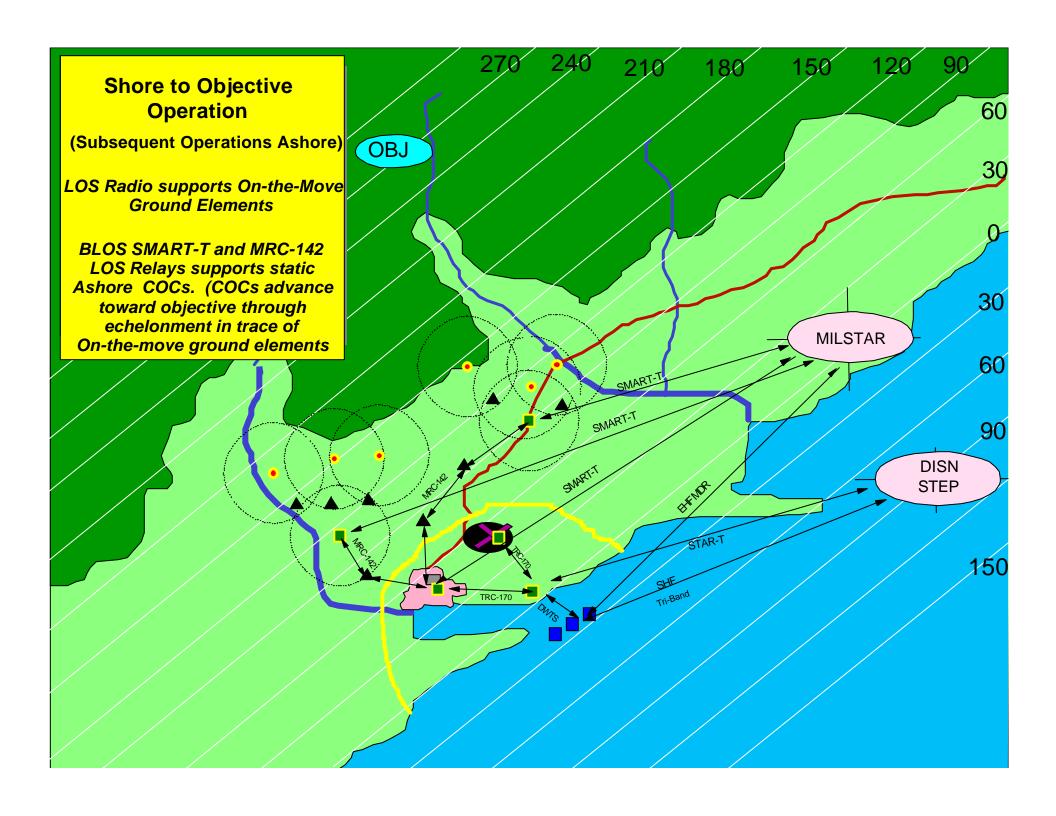
IOC FY00

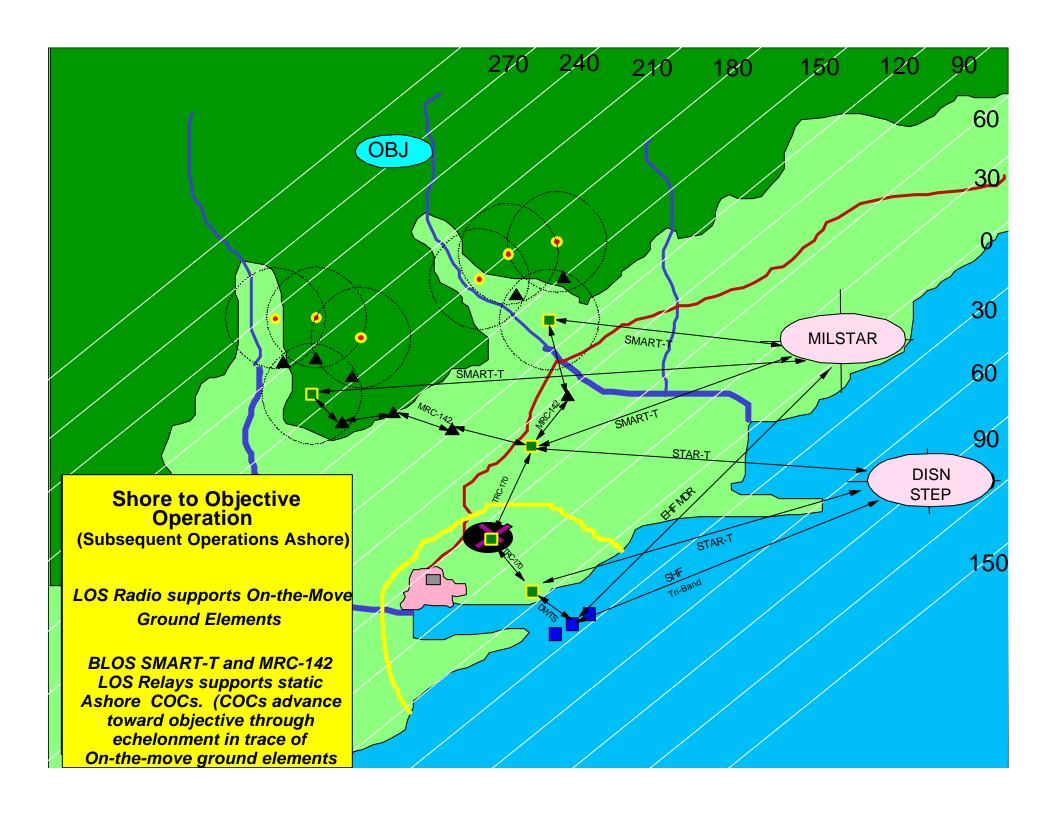
23,000,000 bps broadcast (at Div & Reg)

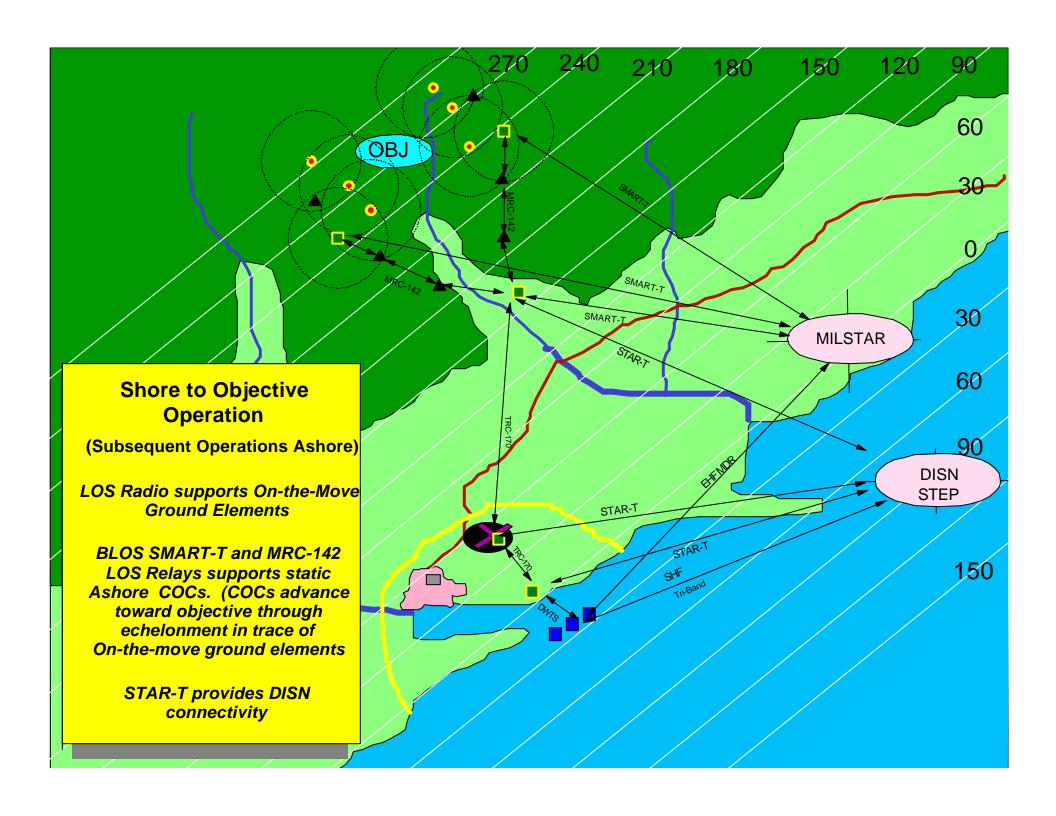


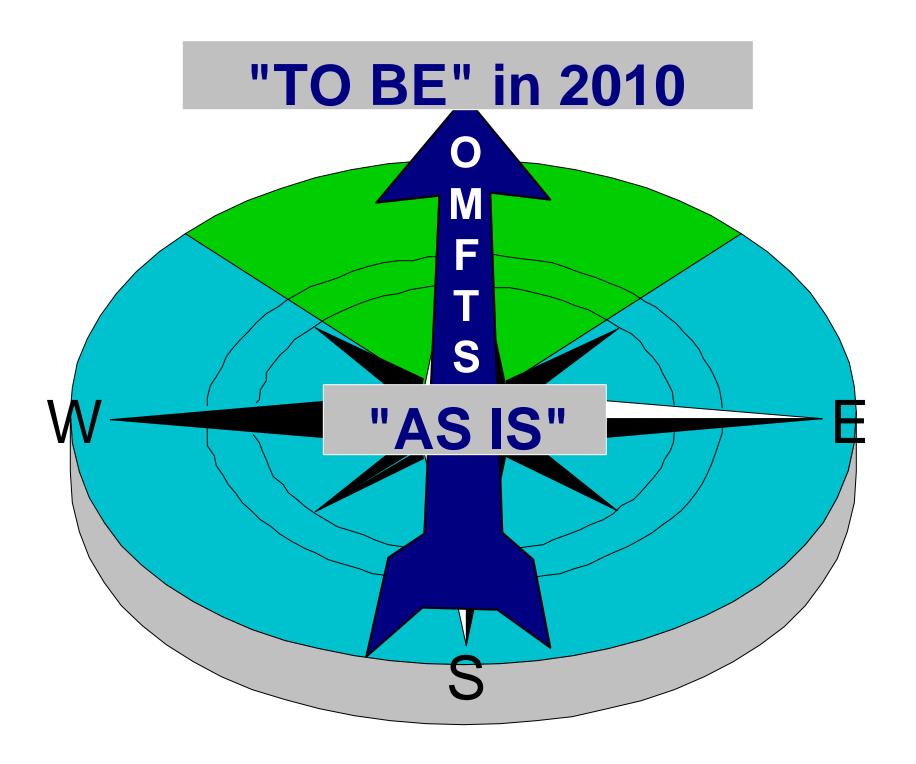
A Functional Combat Opertions Center (COC) Layout

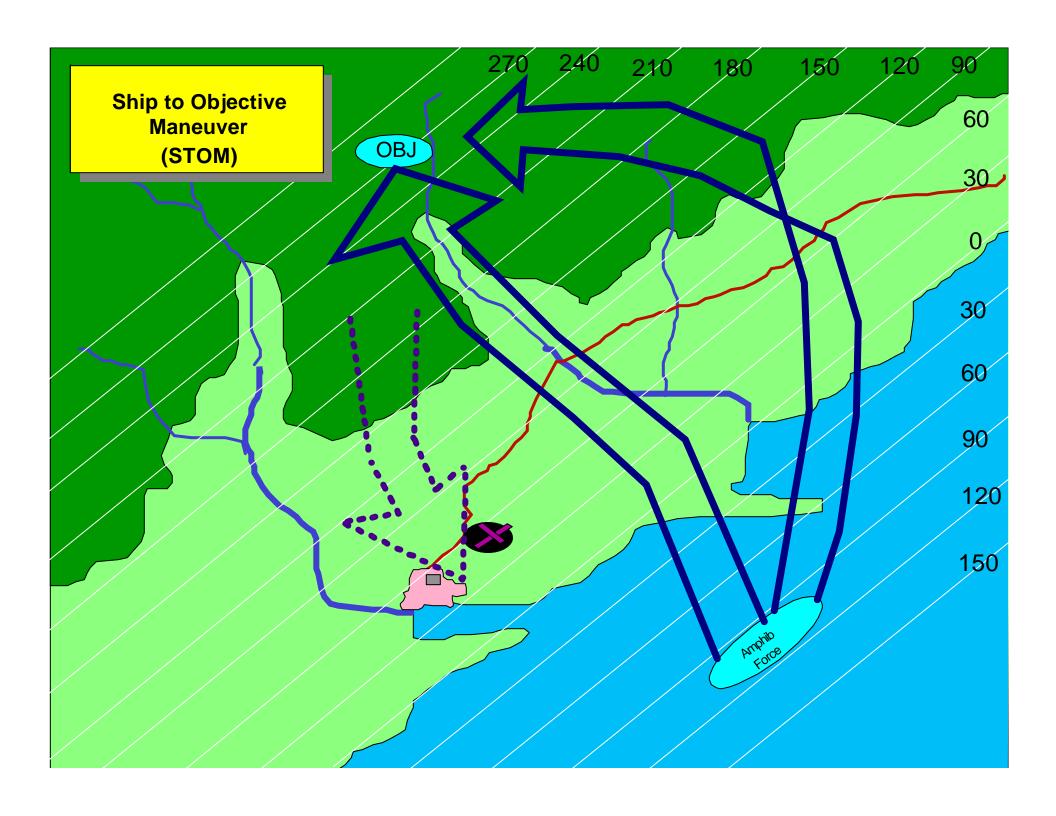










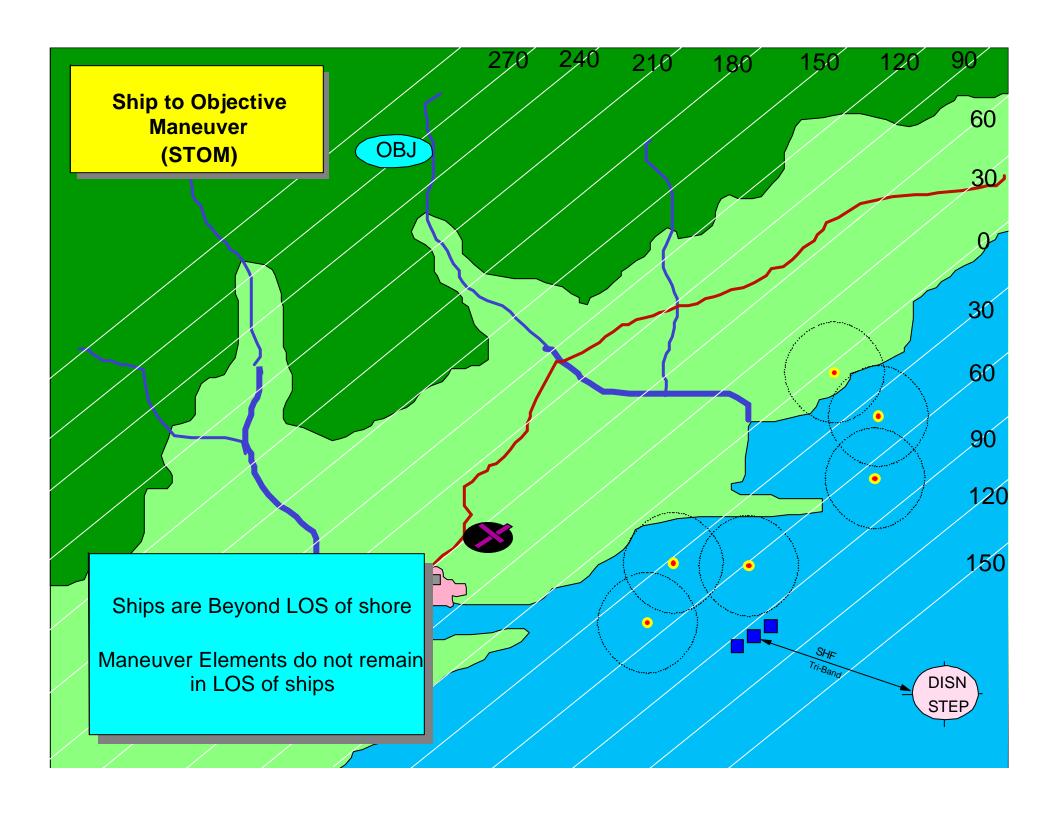


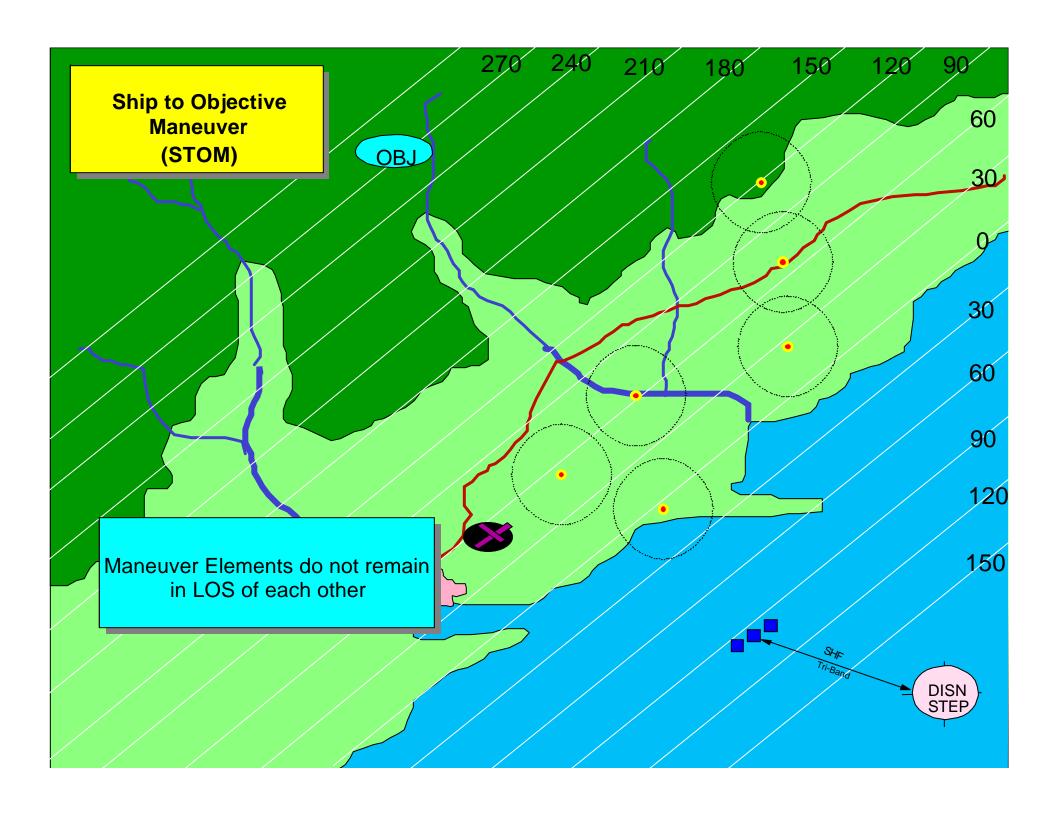


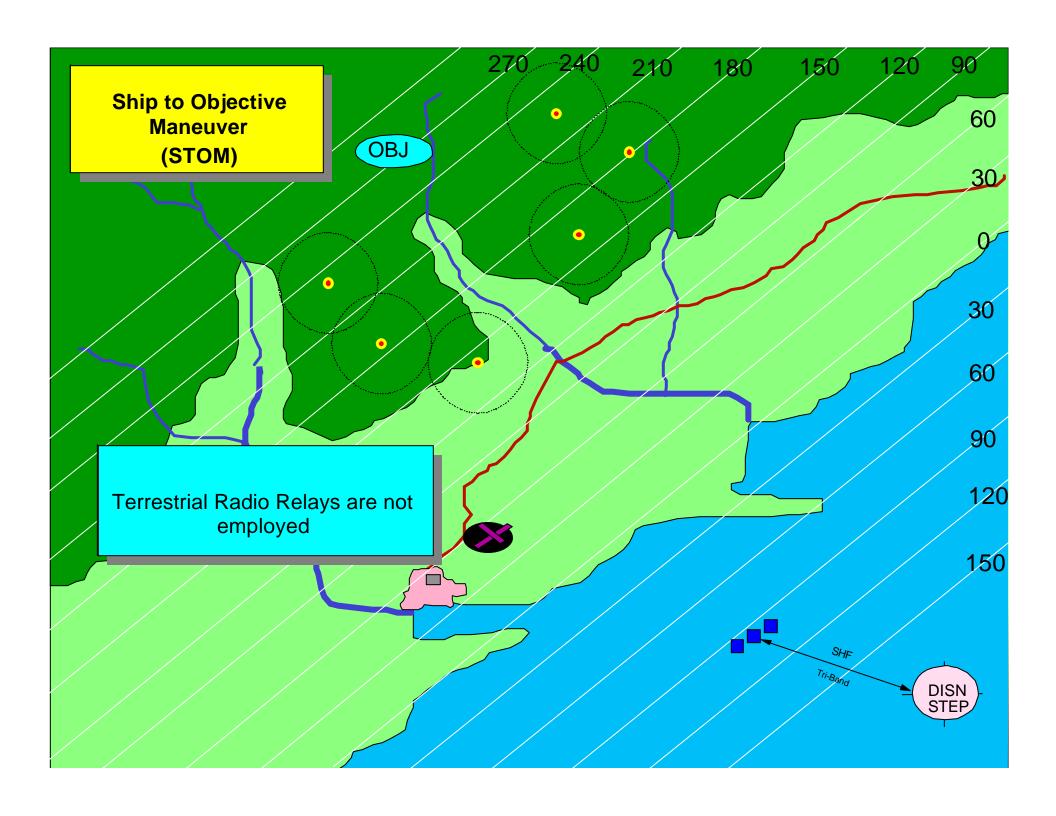
Comm Architecture Tenets

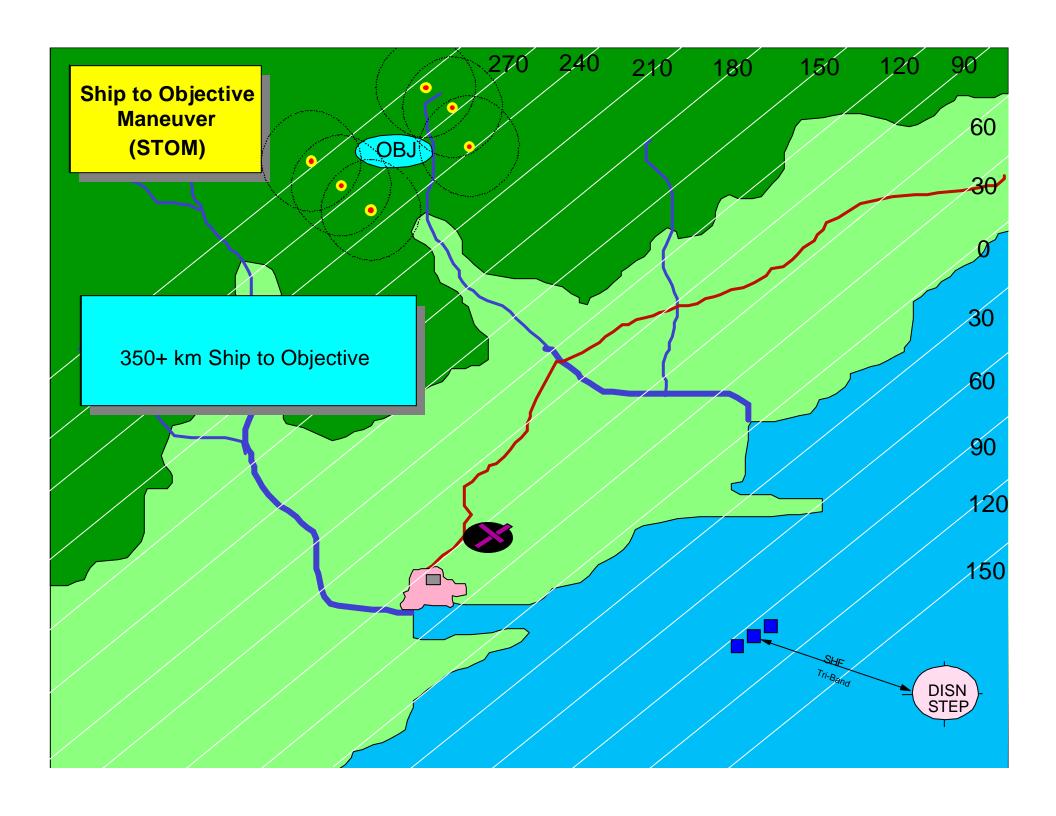
"TO BE" in 2010

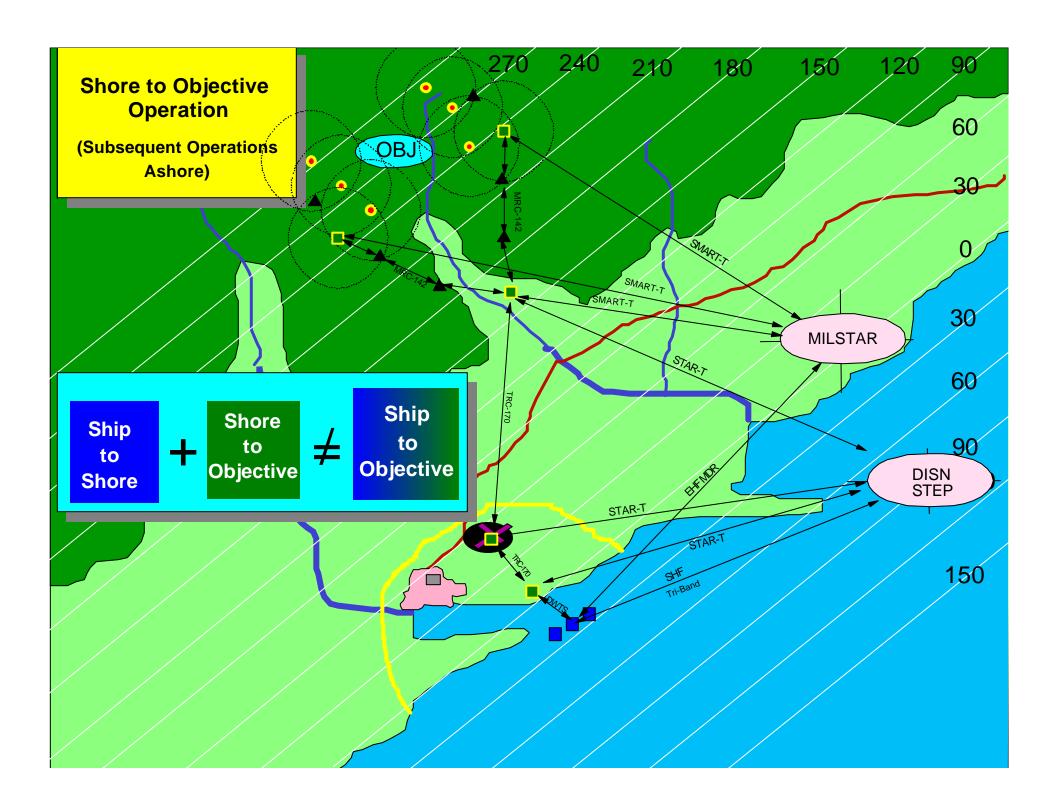
AFFORDABILITY INTEROPERABILIT "AS IS"





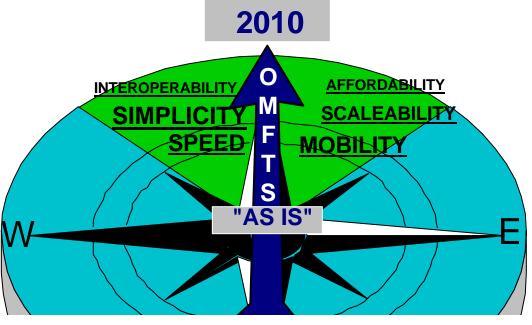


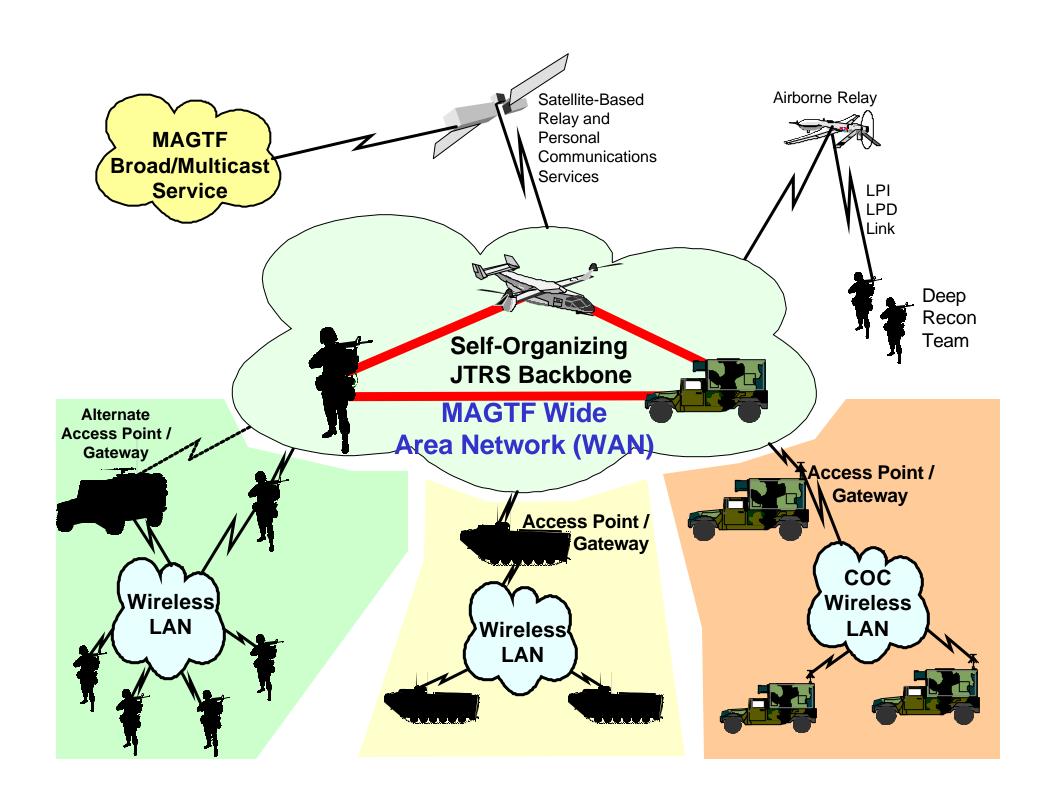


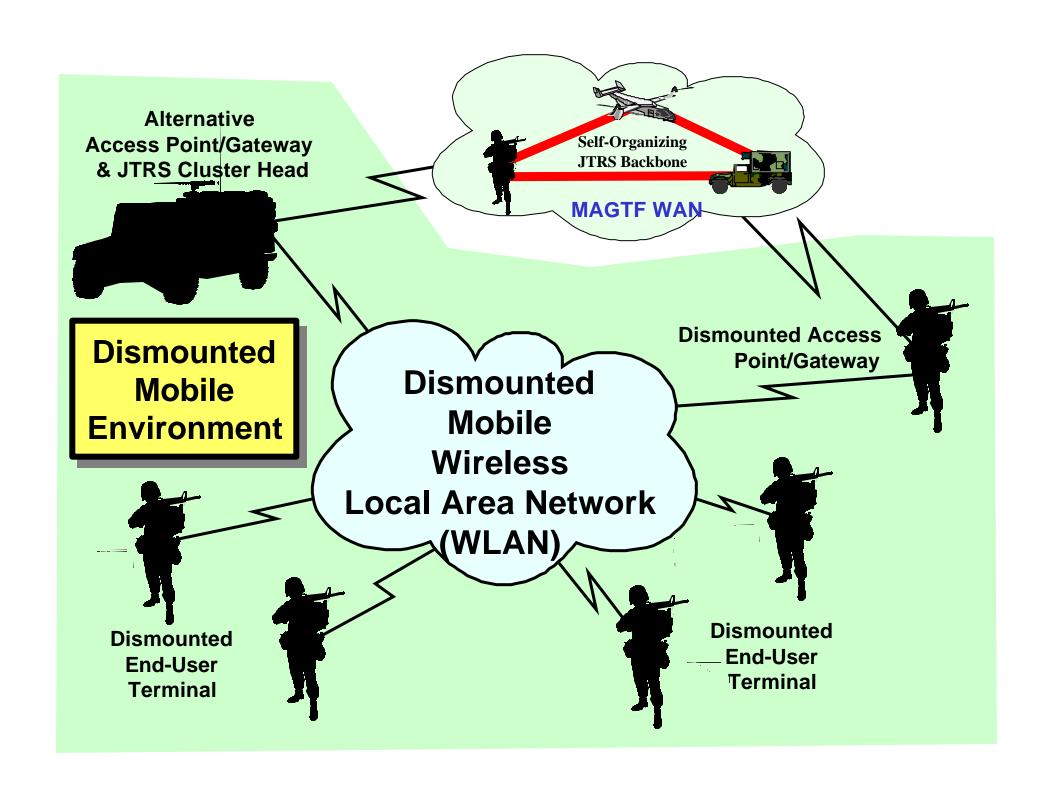


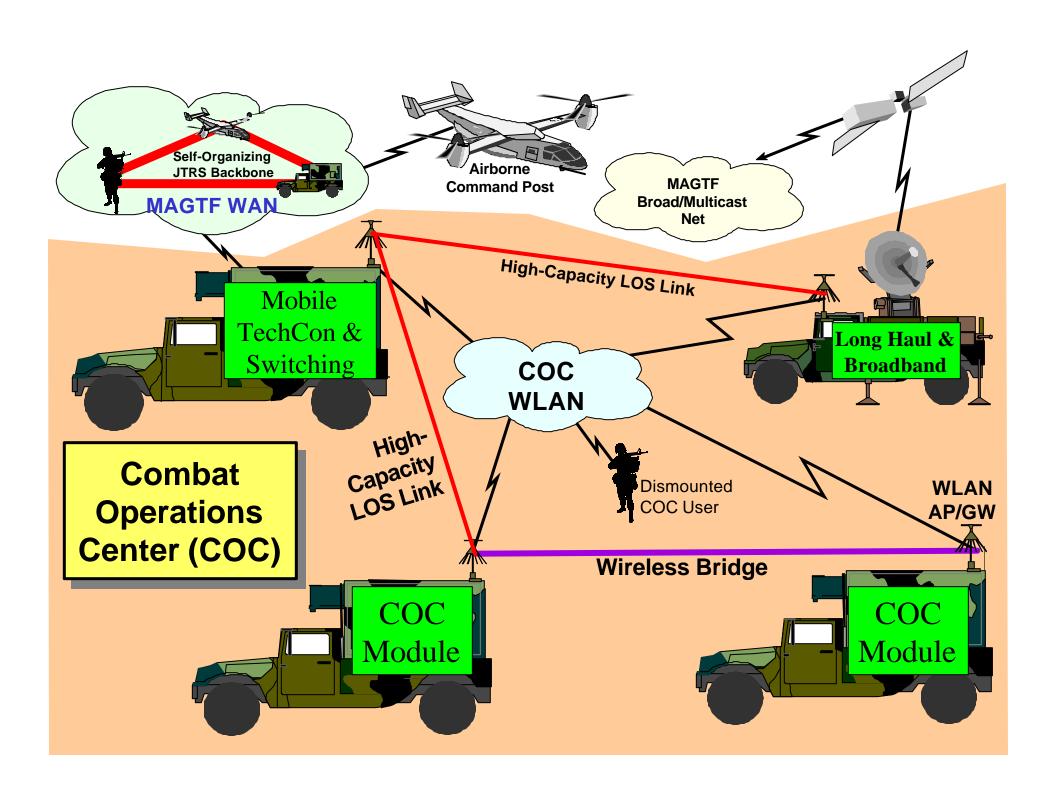


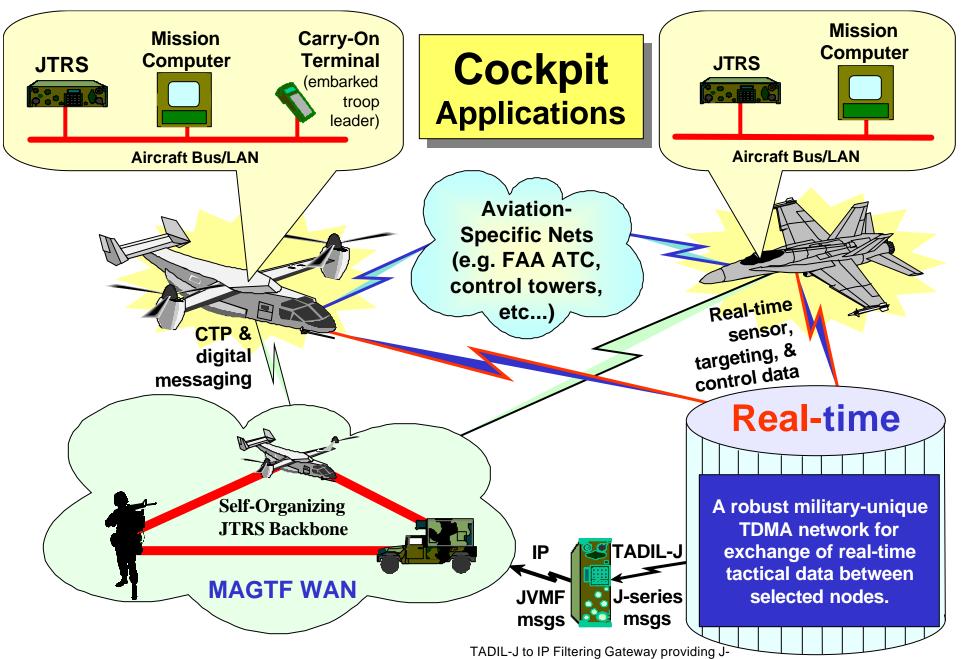
- Connectivity On-the-Move & Beyond Line-of-sight
- Reduced weight & bulk
- Easier to...
 - Set Up
 - Operate
 - Maintain



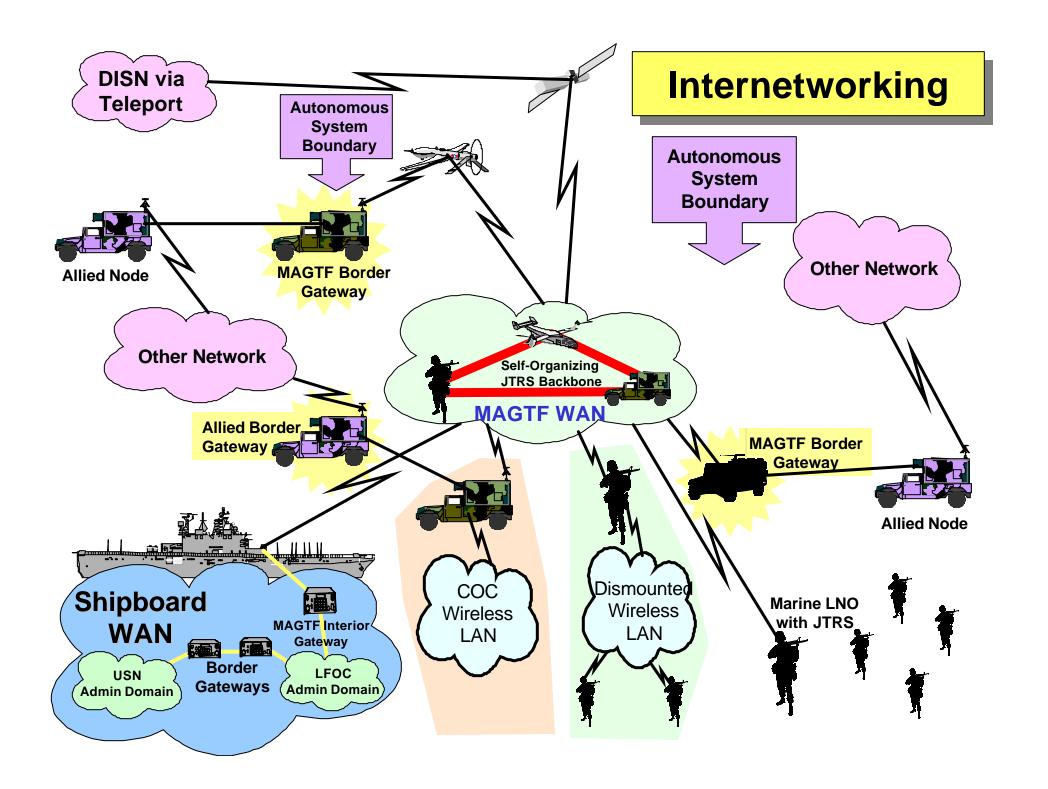






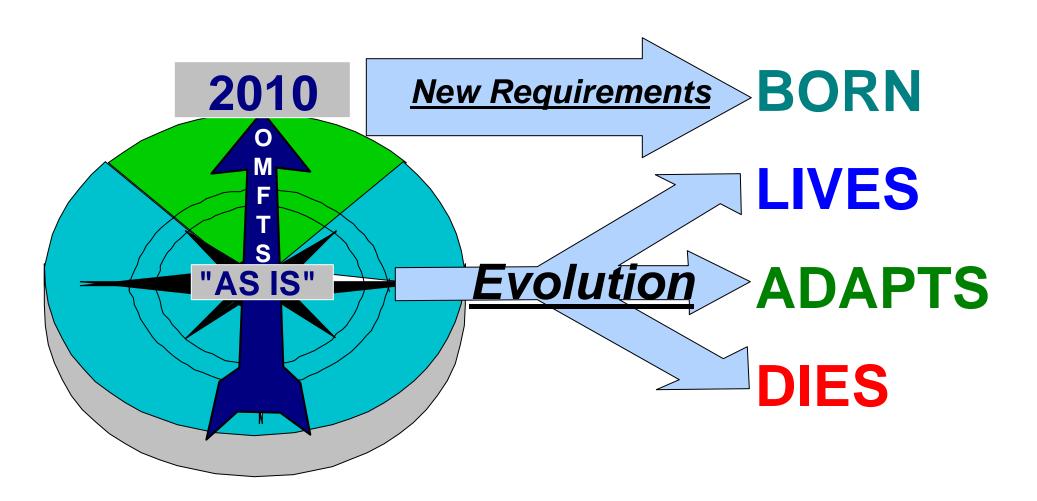


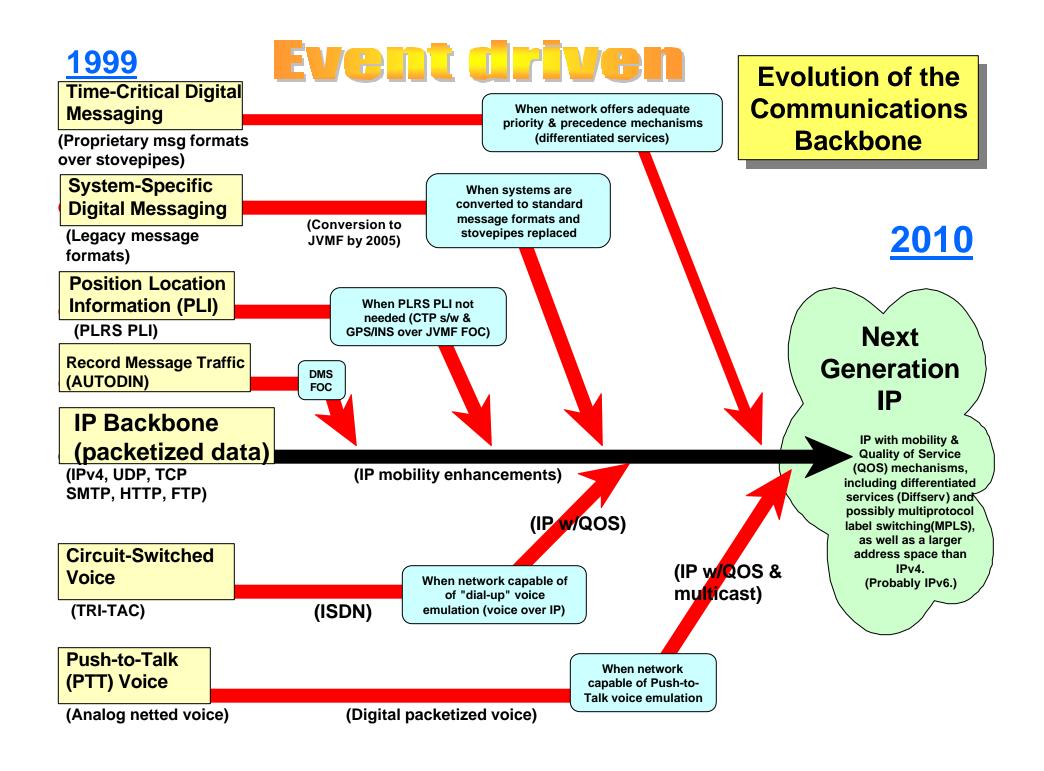
TADIL-J to IP Filtering Gateway providing J-Series to JVMF translation & forwarding of selected messages (e.g. air picture for CTP)





Transition





USMC C4I Architecture Home Page

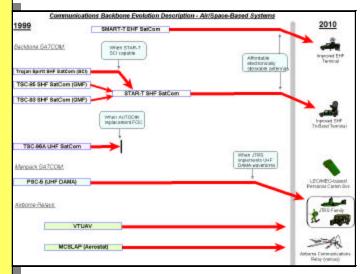
https://www.archvision.quantico.usmc.mil/ (703) 784-6606

Near-Term (U-5 years) Systems Architecture Diagrams - Hierarchical diagrams of "AS-IS" systems

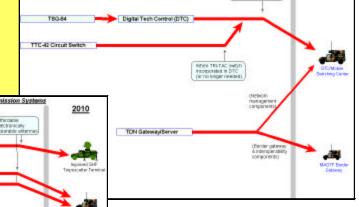
architectures, including systems that are currently fielded or "under construction." Although predominantly consisting of diagrams of Marine Corps organizations, this section also includes diagrams of selected organizations external to the Marine Corps (from a Marine Corps perspective). Many objects in these diagrams are actually links to other diagrams. Pass your mouse cursor over systems or organizations and your browser will usually give you some indication that a link is hidden there. Clicking on an organization or OpFac will then lead to a more detailed view of that organization or OpFac. Clicking on a system icon will bring up a web page describing the system.

• LONG-LOTIN 5-11 VCATS SYSTEMS ACCURECE LIBERTIANS - Hierarchical diagrams of "TO-BE systems architectures. These architecture depictions are used to synchronize the efforts of requirements drafters, system builders, experimenters, and researchers. Again, click on icons to see any sub-diagrams

- Operational Architecture Diagrams Hierarchical diagrams of the Operational Architecture for the Marine Expeditionary Force (MEF). Click on an operational facility (OpFac) for data describing that OpFac, its needlines, or information exchange requirements (IERs).
- Regimental Communications Model This diagram set depicts one possible systems architecture for the Ground Combat Element (GCE) of a MEF Forward. This particular was selected for use in an ongoing communications modeling and simulation effort. In particular, this model will be used to explore several EPLRS employment options.



2010



1999

